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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,010	02/10/2006	Kevin R. Boyle	GB030136	7347
65913	7590	10/11/2007	EXAMINER	
NXP, B.V.			CHEN, SHIH CHAO	
NXP INTELLECTUAL PROPERTY DEPARTMENT				
M/S41-SJ			ART UNIT	PAPER NUMBER
1109 MCKAY DRIVE			2821	
SAN JOSE, CA 95131				
			NOTIFICATION DATE	DELIVERY MODE
			10/11/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

Office Action Summary	Application No.	Applicant(s)	
	10/568,010	BOYLE, KEVIN R.	
	Examiner	Art Unit	
	Shih-Chao Chen	2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 16 July 2007.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-3,6-8 and 10 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-3,6-8 and 10 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 10 February 2006 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

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Attachment(s)

- 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. ____ .
3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date . 5) Notice of Informal Patent Application
6) Other: ____ .

DETAILED ACTION

Specification

1. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (l) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-3, 6-8 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Tarvas et al. (EP 1304765 A2).

Regarding claim 1, Tarvas et al. teaches in figures 2-8 an antenna arrangement (200) comprising a substantially planar patch conductor (220) having a first feed connection point (F) for connection to radio circuitry and a second feed connection point (S) for connection to a ground plane (GND), a first, differential slot (232) in the patch conductor between the first and second connection points and a second, dual band slot (231) located in the patch conductor outside the area between the first and second connection points, wherein the length of the first slot is such as to provide an additional resonance, and the width of the patch conductor (220) between the first and the second slots (232,231) is selected to give an impedance less than a system impedance (See paragraph [0013]).

Regarding claim 2, Tarvas et al. teaches in figures 2-8 an antenna arrangement as claimed in claim 1, wherein the length of the first slot (232) is greater than a quarter wavelength (See Abstract).

Regarding claim 3, Tarvas et al. teaches in figures 2-8 an antenna arrangement as claimed in claim 1, the length of the first slot (232) is such that the additional

resonance combines with an adjacent resonance.

Regarding claim 6, Tarvas et al. teaches in figures 2-8 a module comprising a printed circuit board (PCB) (GND) providing a ground plane, radio circuitry mounted on the PCB, and an antenna arrangement (200), the antenna arrangement comprising a substantially planar patch conductor (220) having a first feed connection point (F) for connection to the radio circuitry and a second feed connection point (S) for connection to the ground plane, a first, differential slot (232) in the patch conductor between the first and second connection points and a second, dual band slot (231) located in the patch conductor outside the area between the first and second connection points, wherein the length of the first slot (232) is such as to provide an additional resonance, and the width of the patch conductor (220) between the first and the second slots (232,231) is selected to give an impedance less than a system impedance (See paragraph [0013]).

Regarding claim 7, Tarvas et al. teaches in figures 2-8 a module as claimed in claim 6, wherein the length of the first slot (232) is greater than a quarter wavelength (See Abstract).

Regarding claim 8, Tarvas et al. teaches in figures 2-8 a module as claimed in claim 6, wherein the length of the first slot (232) is such that the additional resonance combines with an adjacent resonance.

Regarding claim 10, Tarvas et al. teaches in figures 2-8a radio communications apparatus comprising a casing (MS) containing a printed circuit board (PCB) (GND) providing a ground plane, radio circuitry mounted on the printed circuit board, and an antenna arrangement (200), the antenna arrangement comprising a substantially planar

patch conductor(220) having a first feed connection point (F) for connection to the radio circuitry and a second feed connection point (S) for connection to the ground plane, a first, differential slot (232) in the patch conductor between the first and second connection points and a second, dual band slot (231) located in the patch conductor outside the area between the first and second connection points, wherein the length of the first slot (232) is such as to provide an additional resonance, and the width of the patch conductor (220) between the first and the second slots (232,231) is selected to give an impedance less then a system impedance (See paragraph [0013]).

Response to Arguments

4. Applicant's arguments filed July 16, 2007 have been fully considered but they are not persuasive.

Applicant argues that "Tarves does not contain any teachings regarding the width of the patch conductor between the first and the second slots being selected to give an impedance less then a system impedance. In fact, Tarvas makes no mention of the width of the patch conductor between the first and second slots". This argument is not deemed to be persuasive because if the prior art structure can perform the same function then it read on the claims.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shih-Chao Chen whose telephone number is (571) 272-1819. The examiner can normally be reached on Monday-Thursday from 7 AM to 5:30 PM, Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas W. Owens can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shih-Chao Chen
Primary Examiner
Art Unit 2821

Shih-Chao Chen
SHIH-CHAO CHEN
PRIMARY EXAMINER

SXC
September 19, 2007